

Title (en)  
METHOD FOR PREPARING CITALOPRAM GLYCOL INTERMEDIATE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES CITALOPRAM-GLYKOL-ZWISCHENPRODUKTS

Title (fr)  
PROCÉDÉ DE PRÉPARATION D'UN INTERMÉDIAIRE GLYCOLÉ DE CITALOPRAM

Publication  
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Application  
**EP 15894590 A 20150609**

Priority  
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Abstract (en)  
[origin: EP3309142A1] The present invention relates to a method for preparing a citalopram diol represented by formula IV, comprising the following steps: in the existence of an auxiliary reagent of metal salt, allowing 5-cyanophthalide to sequentially subjected to Grignard addition reactions with p-fluorophenyl magnesium halide and N, N-dimethylaminopropyl magnesium halide in an organic solvent; and after the reactions are completed, performing hydrolysis and separation to obtain citalopram diol represented by formula IV. In the present invention, by adding an auxiliary reagent of metal salt, the activity and the selectivity of the Grignard reactions are remarkably improved, and the reaction yield is obviously enhanced.

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Citation (search report)  
• [X] HUA ZONG ET AL: "Added-Metal-Free Catalytic Nucleophilic Addition of Grignard Reagents to Ketones", JOURNAL OF ORGANIC CHEMISTRY, vol. 77, no. 10, 4 May 2012 (2012-05-04), pages 4645 - 4652, XP055519066, ISSN: 0022-3263, DOI: 10.1021/jo3004277  
• See references of WO 2016197320A1

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